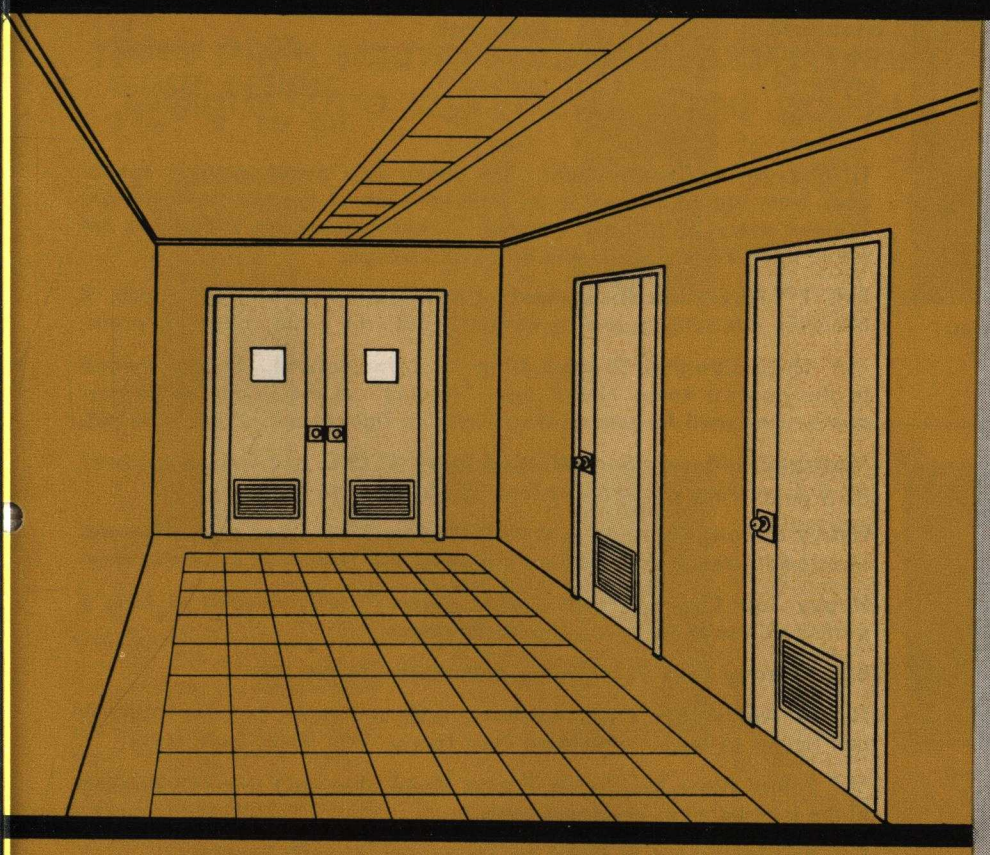
established
1879



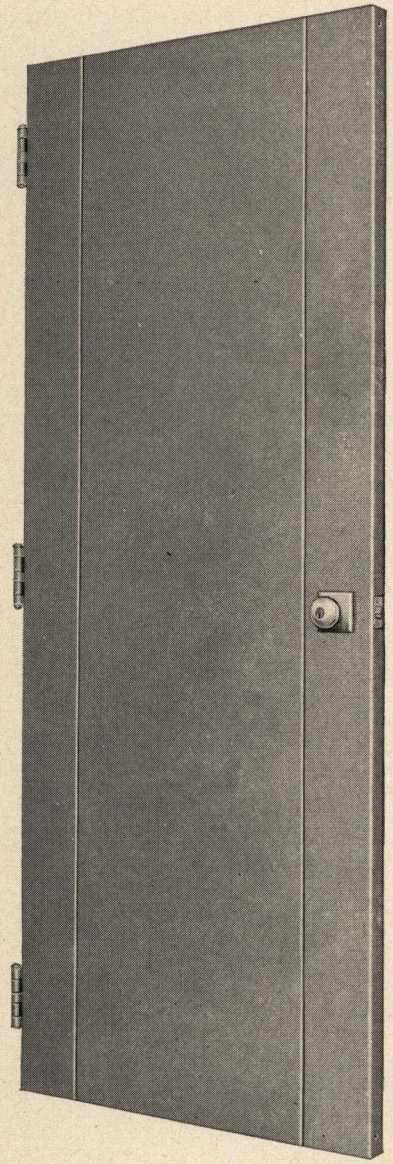
Mesker
BROTHERS

hollow metal doors

81st
anniversary

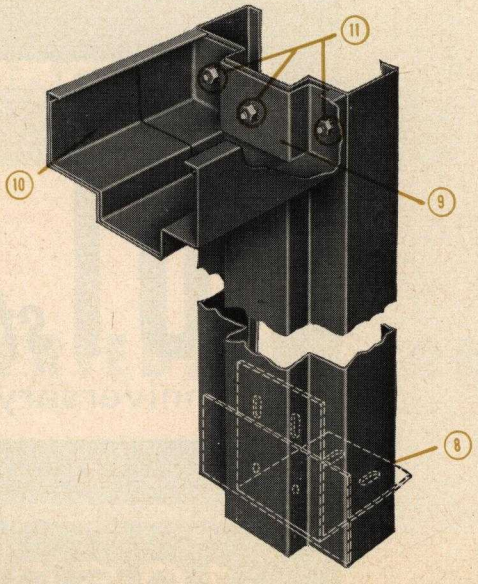
1960

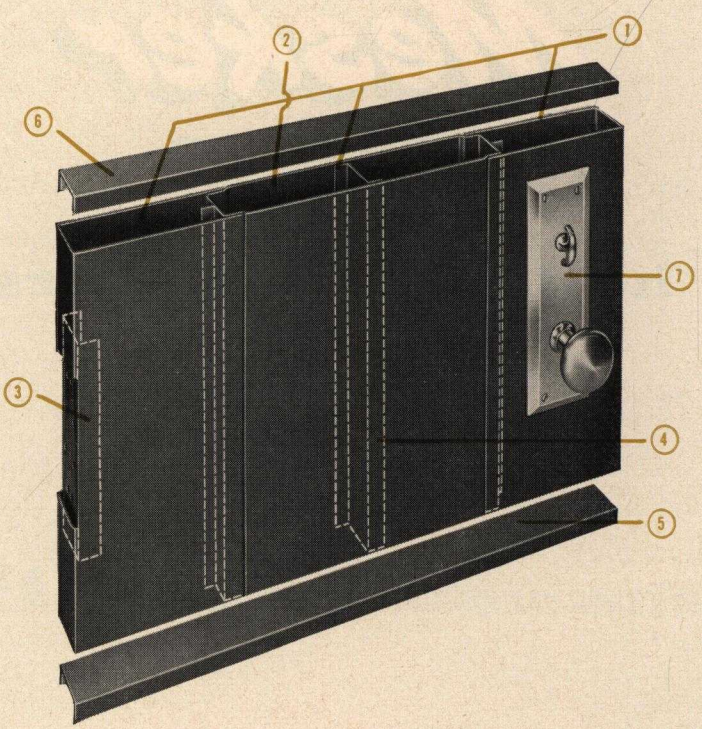
MESKER DOORS • 1¾" x 16 ga.



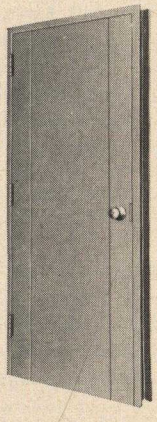
THESE 12 OUTSTANDING FEATURES MAKE EVERY MESKER DOOR AND FRAME OUTSTANDING!

1. **Tri-box-girder Construction!** The center box panel, running continuous from top to bottom is an integral part of the structural design. Welded every 2" to each box rail, it contributes extra stiffness to the whole door. Panels, stiles, and rails all 16 gauge.
2. **Full 2" Fiberglass Insulation!** Compressed into a 1⅝" space, it becomes non-settling and is vermin proof, rot proof, and fire proof.
3. **⅛" Thick Channel Shaped Hinge Reinforcement!** Solidly welded to the door, it keeps hinges from "tearing" at the "skin" of heavier doors. Designed for universal application, right or left, swing in or out.
4. **Vertical Z Stiffeners Spot Welded Every 4" O.C.** and spaced not over 8" O.C. running continuously from top to bottom.
5. **Heavy Bottom Channel,** spot welded every 2" O.C. on both sides and inverted to permit door to be trimmed at the bottom in an emergency.
6. **Heavy Top Channel,** spot welded every 2" and inverted to form a perfect rain shed for open out exterior doors.
7. **Extra Heavy Lock Reinforcing** built right into the door.
8. **Heavy Adjustable Floor Anchors,** with anti-rattle lock-nut feature, can be set at rough or finished floor levels. Will never work loose.
9. **⅛" Joiner Plate Welded to Frame Head** absolutely prevents twisting of the joint between head and jamb.
10. **Full Reinforcement at Head** for closer arm, or soffit bracket.
11. **Anti-vibration Lock-nuts and Bolts** will never work loose or rattle even after years of service.
12. **Fully Enclosed Dust Box** (not illustrated) to keep lock strike free from mortar.





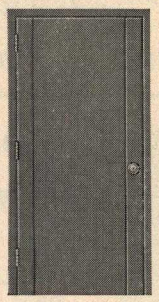
Series 2000 FLUSH DESIGN 1¾" x 16 ga.



Available in 6 designs shown, and in the standard opening sizes shown opposite each design. Design G2 may be had with 4 lights of glass, and design M-FLB may be had with 2 louvers, or one top louver only. Standard vision panel in design MV is approximately 10"x10" to receive ¼" glass. (Refer to Home Office for Underwriters' Labeled Doors).

Standard Size Door Opening

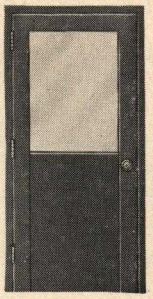
FP-2068-M
FP-2668-M
FP-2868-M
FP-3068-M
FP-3468-M
FP-2070-M
FP-2670-M
FP-2870-M
FP-3070-M
FP-3470-M
FP-3870-M
FP-4070-M



Design M

Standard Size Door Opening

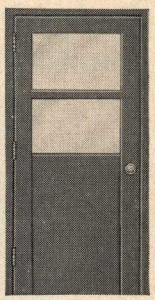
FP-2668-G
FP-2868-G
FP-3068-G
FP-3468-G
FP-2670-G
FP-2870-G
FP-3070-G
FP-3470-G
FP-3870-G
FP-4070-G



Design G

Standard Size Door Opening

FP-2668-G2
FP-2868-G2
FP-3068-G2
FP-2670-G2
FP-2870-G2
FP-3070-G2



Design G2

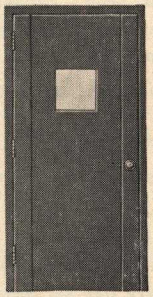
Standard Size Door Opening

FP-2668-M-FLB
FP-2868-M-FLB
FP-3068-M-FLB
FP-2670-M-FLB
FP-2870-M-FLB
FP-3070-M-FLB

Design M-FLB
(Fixed Louvre)

Standard Size Door Opening

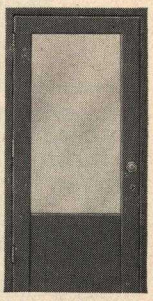
FP-2068-MV
FP-2668-MV
FP-2868-MV
FP-3068-MV
FP-3468-MV
FP-2070-MV
FP-2670-MV
FP-2870-MV
FP-3070-MV
FP-3470-MV
FP-3870-MV
FP-4070-MV



Design MV

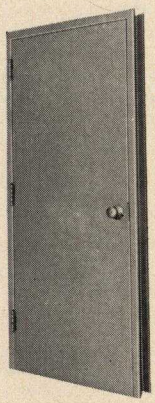
Standard Size Door Opening

FP-3070-LG
FP-3470-LG
FP-3870-LG



Design LG

Series 3000 SLAB DESIGN 1¾" x 16 ga.



Available in the 6 designs shown and in the standard opening sizes shown opposite each design. Design G2 may be had with 4 lights of glass, and design M-FLB may be had with 2 louvers, or one top louver only. Standard vision panel in design MV is approximately 10" x 10" to receive ¼" glass. (Refer to Home Office for Underwriters' Labeled Doors).

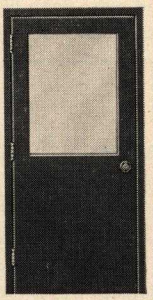
Standard Size Door Opening

F-2068-M
F-2668-M
F-2868-M
F-3068-M
F-3468-M
F-2070-M
F-2670-M
F-2870-M
F-3070-M
F-3470-M
F-3870-M
F-4070-M

Design M

Standard Size Door Opening

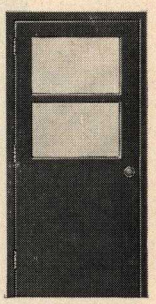
F-2668-G
F-2868-G
F-3068-G
F-3468-G
F-2670-G
F-2870-G
F-3070-G
F-3470-G
F-3870-G
F-4070-G



Design G

Standard Size Door Opening

F-2668-G2
F-2868-G2
F-3068-G2
F-2670-G2
F-2870-G2
F-3070-G2



Design G2

Standard Size Door Opening

F-2668-M-FLB
F-2868-M-FLB
F-3068-M-FLB
F-2670-M-FLB
F-2870-M-FLB
F-3070-M-FLB

Design M-FLB
(Fixed Louvre)

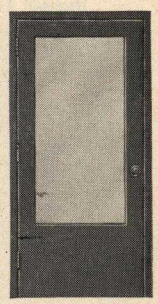
Standard Size Door Opening

F-2068-MV
F-2668-MV
F-2868-MV
F-3068-MV
F-3468-MV
F-2070-MV
F-2670-MV
F-2870-MV
F-3070-MV
F-3470-MV
F-3870-MV
F-4070-MV

Design MV

Standard Size Door Opening

F-3070-LG
F-3470-LG
F-3870-LG



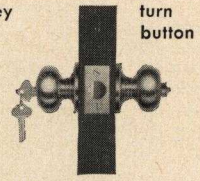
Design LG

CYLINDRICAL LOCKSETS

Standard Finish U.S. 10 Dull Bronze
2¾" Backset

MORTISED LOCKSETS

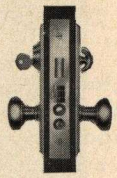
Standard Finish U.S. 10 Dull Bronze
1¼" x 8" Front • 2¾" Backset



Exterior Lock
D101
U.S. 161-A

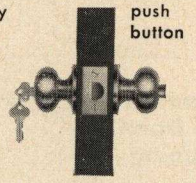
By key from outside when outer knob is locked by turn button in inner knob. Inner knob is always free.

*Standard Duty Lockset available in same function.
D165—U.S. 160-A



Exterior Lock
D801
U.S. 86-A

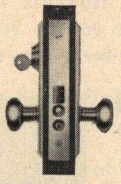
Latch operated by both knobs except when push buttons are set to lock outside knob. Dead bolt operated by outside key and inside thumb piece. When push buttons are set, key retracts latch.



Office Lock
D102
U.S. 161-B

By key from outside when outer knob is locked by push button in inner knob. Turning inner knob releases push button avoiding accidental lock-out.

*Standard Duty Lockset available in same function.
D151—U.S. 160-B



Office Lock
D802
U.S. 86-D

Latch operated by both knobs except when push buttons are set to lock outside knob, then by key from outside. Door always unlocked from inside for emergency exit. No anti-lock-out feature

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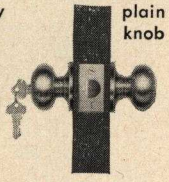
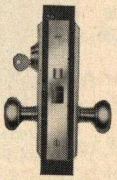


Classroom Lock
D103
U.S. 161-R

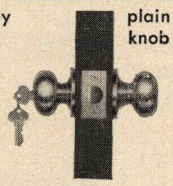
Locked or unlocked by key from outside. Cannot be locked except with key from outside. Inner knob always free for emergency exit.

*Standard Duty Lockset available in same function.
D156—U.S. 160-R



Classroom
D803
U.S. 86-J

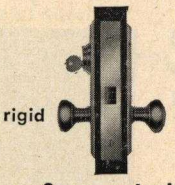
Locked or unlocked by key from outside only. When unlocked either knob operates latch. Inner knob always free for emergency exit.



Storage Lock
D104
U.S. 161-D

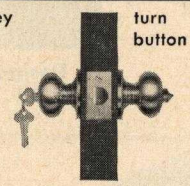
Fixed outer knob unlocked by key. Inner knob always free. Door always locked when closed.

*Standard Duty Lockset available in same function.
D152—U.S. 160-D



Storage Lock
D804
U.S. 86-DW

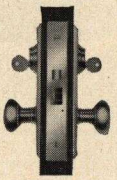
Outer knob always rigid. Outside key retracts latch. Inner knob always free for exit. Door always locked when closed.



Public Toilets
D105
U.S. 161-E

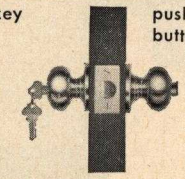
By key from outside when knob is locked by universal button in inner knob. Closing door releases universal button. Outer knob may be kept fixed by rotating universal button.

*Standard Duty Lockset available in same function.
D159—U.S. 160-E



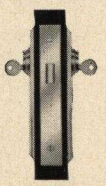
Public Toilets
D805
U.S. 86-G

Latch operated by either knob except when outside knob has been locked by key from inside. Then unlocked by outside key. Inner knob always free for exit.



Dormitory Lock
D108
U.S. 161-T

Locked or unlocked by key from outside, by push button from inside. Automatic latch prevents locking out.

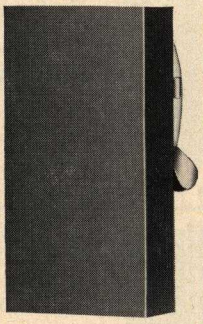
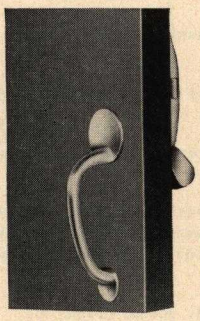
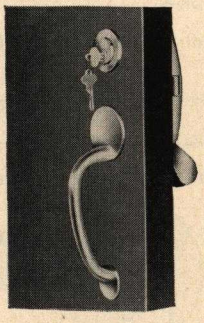
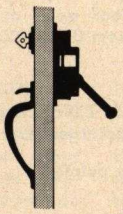
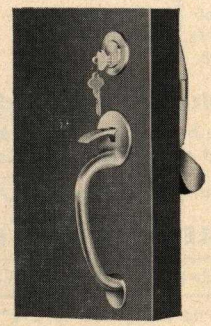


Dead Bolt
D179Y
U.S. 86-T

Dead bolt operated by key from either side. No knobs. D180Y, U.S. 86-P, alternate, with dead bolt operated by key outside, thumb turn inside. Requires additional push and pull sets.

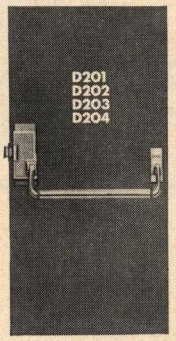
Special Finishes Available: U.S. 28—Satin finish on aluminum*; U.S. 26D—Dull chrome on brass; U.S. 26—Polished chrome on brass. (*Satin finish aluminum not furnished on mortise locks)

ANTI-PANIC DEVICES • Standard Finish U.S. 10 Dull Bronze

USE	END VIEW	OUTSIDE TRIM
FOR EXIT DOORS ONLY No outside pull handle. No cylinder lock. Always use door closer. Door always locked when closed, difficult to open even when inner latch is held in retracted position by dogging screw. Always free for exit.	 Single Latch D201 Double Latch D211	
FOR ENTRANCES AND EXITS Suggested for banks of two or more entrance doors. To reduce cost, use one D203 below, and the balance D202. When closed by closer, it is always locked at night by releasing latch bolt. During the day, it forces the custodian to hold the latch retracted to provide ingress, thus saving wear and tear on the mechanisms. Banks of doors are opened in the morning by ingress through the D203 with outside cylinder lock, then retracting the latches on the D202's. Always free for exit.	 Single Latch D202 Double Latch D212	
FOR ENTRANCES AND EXITS Used where doors must be unlocked from the outside. Forces the custodian to dog the latch retracted during the day, avoiding unnecessary use of the latching mechanism. Always use a closer. Always free for exit.	 Single Latch D203 Double Latch D213	
FOR ENTRANCES AND EXITS Used where doors must be unlocked from the outside, and where exceptional wind conditions require the door to always be latched to avoid vacuum slamming. Thumb piece acting on latch allows opening even when latch is not dog retracted, hence does not force the custodian to dog retract latch during the day.	 Single Latch D204 Double Latch D214	

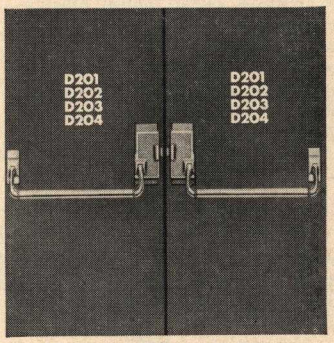
VARIOUS COMBINATIONS

Single Door



Active

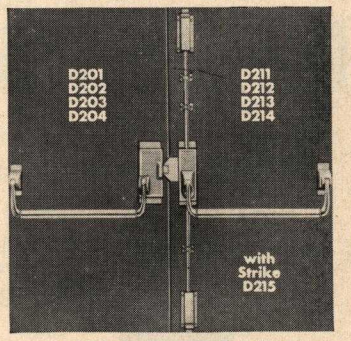
2 Single Doors with Mullion



Active Active

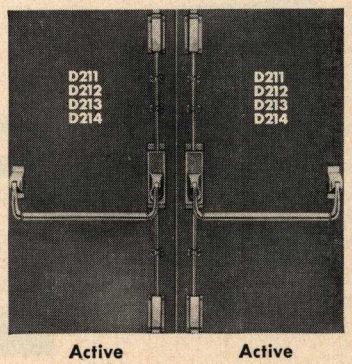
Removable Mullion

Pair of Doors



Active Inactive

Active Double Doors



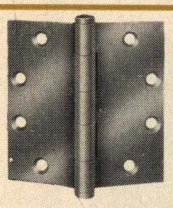
Active Active

Special Finishes Available: U.S. 26—Polished chrome on brass; U.S. 26D—Dull chrome on brass.

HINGES (Steel or Bronze)

STANDARD HINGE D300

Full Mortise
Steel Painted
Button Tip

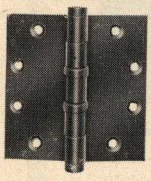


4½" x 4½"
.134" Thick
5 Knuckle

Non-rising Loose Pins

2-RACE BALL BEARING HINGE D300R2

Full Mortise
Steel Painted
Button Tip



4½" x 4½"
.134" Thick
5 Knuckle

Non-rising Loose Pins

PLAIN BEARING hinges should be used only on infrequent-use doors; closets, storage rooms, etc.

D300—Steel USP; removable pin
***D350**—Steel USP; removable pin
***D352**—Steel USP; non-removable pin

TWO RACE BALL BEARING hinges suggested for average frequency, classrooms, offices, corridors, etc.

D300R2—Steel USP; removable pin
***D350R2**—Steel USP; removable pin
***D352R2**—Steel USP; non-removable pin
D310R2—Bronze US10; removable pin
D312R2—Bronze US10; non-removable pin
***D360R2**—Bronze US10; removable pin
***D362R2**—Bronze US10; non-removable pin

FOUR RACE BALL BEARING hinges for entrances, toilets, locker-rooms, etc.

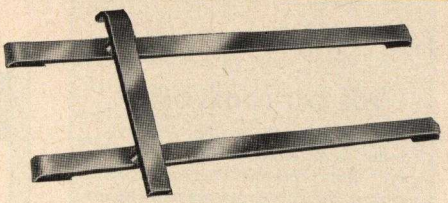
D300R4—Steel USP; removable pin
***D352R4**—Steel USP; non-removable pin
D310R4—Bronze US10; removable pin
D312R4—Bronze US10; non-removable pi
***D362R4**—Bronze US10; non-removable pin

*See page 9 for using these hinges with structural frames.

Finishes Available for Bronze Hinges: U.S. 10—Dull bronze; U.S. 26—Polished chrome; U.S. 26D—Dull chrome.

Finishes Available for Steel Hinges: Prime Painted "Lumasheen" (Aluminum).

PUSH AND PULLS
(Aluminum or Bronze)



D655 pull bars (illustrated) consisting of 2 horizontal bars with attached vertical pull bar.

D656 push bars (not illustrated) consisting of 2 separate horizontal bars, similar to illustration above, but no vertical pull bar.

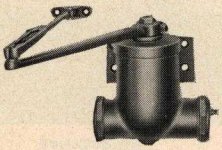
Special Finishes Available: Aluminum or Bronze, U.S. 26, U.S. 26D, U.S. 28.

D655 and D655
Two pull bars, one on each side of door.

D655 and D656
Pull bar set on outside, and push bar set on inside.

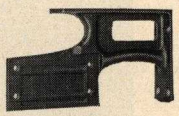
D655 and D651
Pull bar set on outside with single push plate (D651) on inside.

CLOSERS (Painted Bronze)



Regular Arm
D430, 440, 450

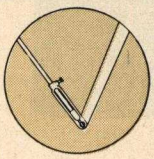
Parallel Arm
D433, 443, 453



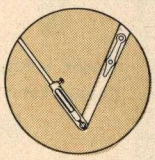
Corner Bracket
D434, 444, 454

Soffitt Bracket
D435, 445, 455

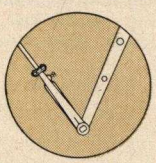
Closers are available for 90°, 135° and 180° openings



D430, 440, 450
Regular arm—Ball and Socket construction at Knuckle. No hold open device.



D431, 441, 451
Hold open arm—Friction type. Adjustable to hold door open at any angle from 0° to 100°.



D432, 442, 452
Fusible link arm—Hold open arm with fusible link release at 160°F, allowing door to close.

Choice of Soffit Brackets

These brackets must always be used on EXTERIOR doors that SWING OUT. Soffit bracket for doors 7 feet or more in height. Corner bracket for doors LESS THAN 7 feet high.

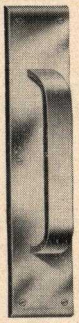
Special Finishes Available: Aluminum painted.

TABLE OF CLOSER LIMITS

Inside Door	Outside Door	Reg. Arm	Hold Open	Fusible	Parallel	Corner	Soffitt
Up to 3'	Up to 2'-8"	D430	D431	D432	D433	D434	D435
3'-1" to 4'	2'-9" to 3'-8"	D440	D441	D442	D443	D444	D445
4'-1" to 5'	3'-9" to 4'-0"	D450	D451	D452	D453	D454	D455

PUSH PLATE and PULL HANDLE

D651 (U.S. 10 finish)

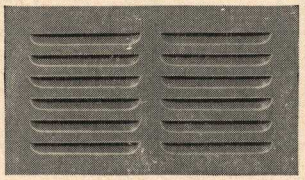


D653

Push Plate D651
Standard finish U.S. 10 Dull Bronze. Aluminum, dull and bright chrome available.

Pull Handle D653
Standard finish U.S. 10 Dull Bronze. Aluminum, dull and bright chrome available.

LOUVRES
(Prime Painted Steel)



FPL (fixed pressed) Louvre
Not a separate louvre, but pressed integrally into both sides of the door.

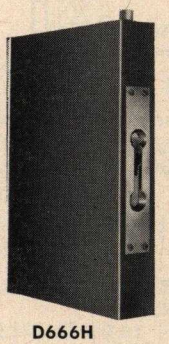
FPL—Louvre (Mesker D715-22 shown)

Standard Sizes

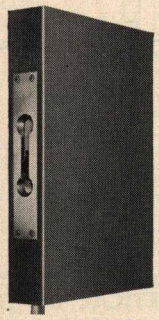
D715-11 ..... 11"x12"
D715-22 ..... 22"x12"

(Other sizes available on special order.)

TOP and BOTTOM BOLTS
Standard Finish U.S. 10 Dull Bronze



D666H

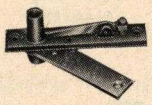


D666B

Mortised Top Bolt D666H
Cast bronze concealed works, fully mortised.

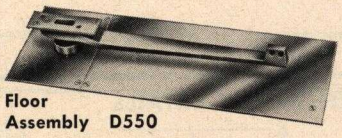
Mortised Bottom Bolt D666B
Cast bronze, concealed works, fully mortised.

FLOOR CLOSERS



Head
Pivot

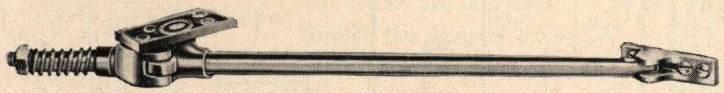
Double acting, center pivoted, recessed in floor. Closing and hydraulic checking mechanism for doors swinging both ways. Spring power and checking resistance have four separate adjusting controls. Also available in single acting, offset pivoted, recessed in floor. U.S. 10, Dull Bronze, or U.S. 28, Anodized Aluminum.



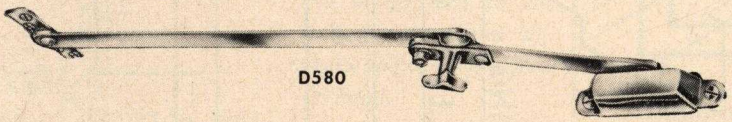
Floor Assembly D550

Shown without threshold. Available with threshold.

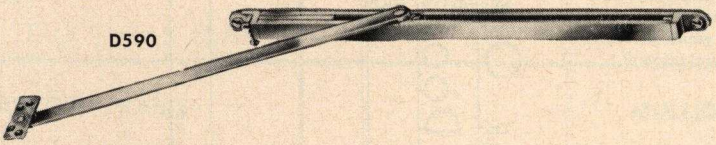
OVERHEAD DOOR HOLDERS
Standard Finish U.S. 10 Dull Bronze



D570



D580



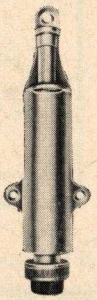
D590

Door Holder—D570
Slide action economy overhead door holder with spring shock absorber. Stops door at maximum position of 90°. Hold-open action can be readily disengaged.

Door Holder—D580
Arm action overhead door holder. Spring shock absorber stops door at maximum opening of 90°. Quarter turn of control handle disengages hold-open action. Not reversible.

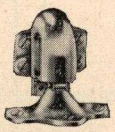
Door Holder—D590
Slide action overhead door holder. Spring shock absorber stops door at maximum position of 90°. Quarter turn of control handle disengages hold-open action. Not reversible.

DOOR STOPS
(Dull Bronze U.S. 10)

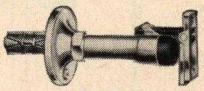


D624

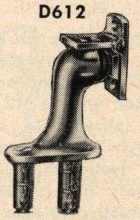
D631-A



D602



D612



D603

Door Stop—D624
Solid bronze U.S. 10 dull bronze finish. Holds door open at any angle. Throw of bolt variable to 1¼". Rubber shoe grips floor firmly.

Door Bumper—D631-A
1" high floor bumper for doors without threshold.

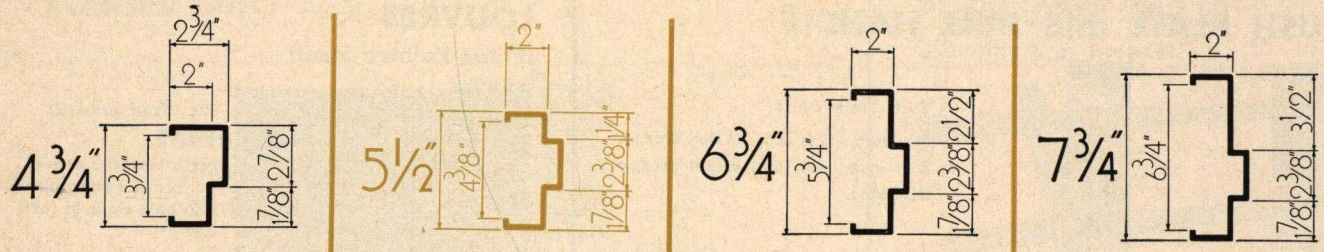
Door Stop—D602
Automatically engages and disengages when door is pushed against it or pulled away from it.

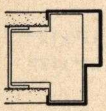
Door Stop—D612
Hinged hook plate on door acts as hold open device and also as bumper plate protecting door finish.

Door Stop—D603
Solid bronze U.S. 10 finish with round rubber bumper. Keeper is through bolted to door in the field after doors are hung. No shop preparation for keeper.

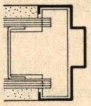
Special Finishes Available: Push and pulls—aluminum or bronze, U.S. 26, U.S. 26D, U.S. 28. Top and bottom bolts—bronze only, U.S.26, U.S. 26D. Holders and stops—bronze only, U.S. 26, U.S. 26D.

DOOR FRAMES for 1¾" Doors • 4¾" • 5½" • 6¾" • 7¾"



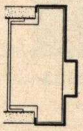


3¼" METAL STUD WITH LATH AND PLASTER



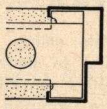
3¼" METAL STUD ½" SHEET ROCK PLASTERED

5⅝" CONCRETE BLOCK WALL PLASTER BOTH SIDES

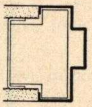


6" STEEL STUD PLASTERED

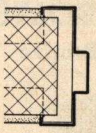
3" PYROBAR PLASTERED



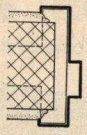
4" METAL STUD LATH AND PLASTER

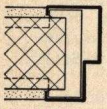


5⅝" HOLLOW TILE PLASTERED

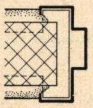


5⅝" CONCRETE BLOCK OR 5⅝" HOLLOW TILE PLASTERED

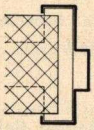




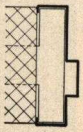
3⅝" HOLLOW TILE OR CONCRETE BLOCK



4" HOLLOW TILE OR PYROBAR PLASTERED



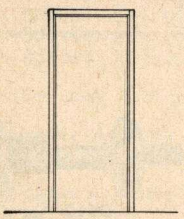
5¾" GLAZED TILE WALL

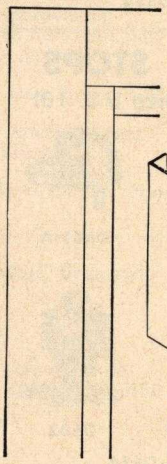


7⅝" CONCRETE BLOCK WALL

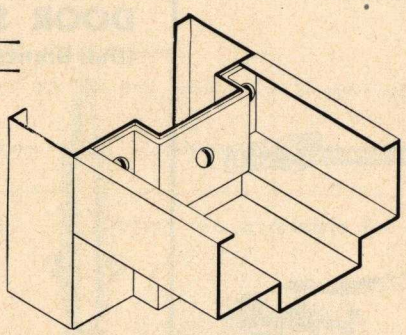
5½" Frames are standard and carried in stock. Other depths made only on special order.

KNOCKED-DOWN FRAME DETAILS



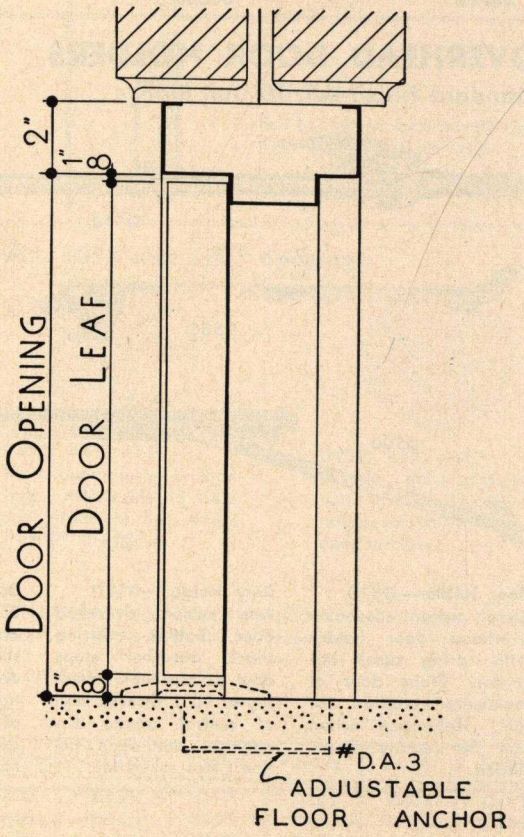


Frames are shipped knocked down. They are accurately coped as detailed and held together with a 12 gauge steel splice plate and six 3/16"x½" round head stove bolts. Notice that the jamb members run all the way to the top providing an uninterrupted bearing at the jambs.



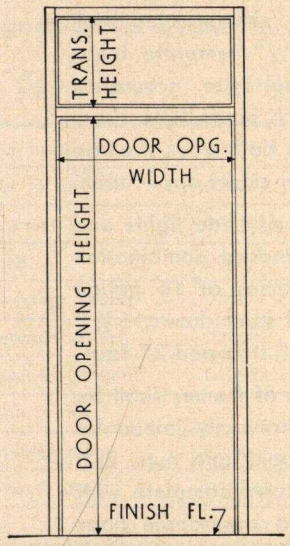
Three Anti-Vibration Lock Nuts and Bolts hold each corner joint tight and rigid even after years of service. (See Feature 11 on page 2.)

VERTICAL DIMENSIONS



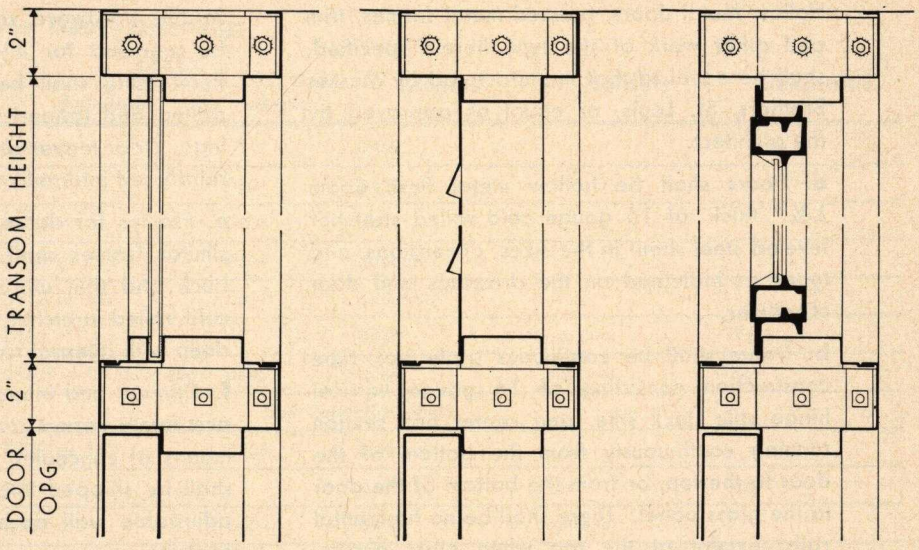
HORIZONTAL DIMENSIONS

TYPICAL TRANSOM OPENINGS



EXTERIOR ELEVATION

Transom frames are furnished for all standard size doors, manufactured only to order. They can be furnished with either a fixed or removable transom bar.



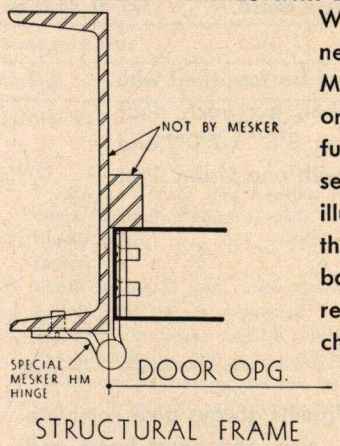
Fixed Glazed | **Louver Panel** | **Vented Sash**

FIXED GLAZED TRANSOMS are generally used with fixed transom bars for entrances. They are furnished with a continuous glazing bead set for ¼" glass.

LOUVER PANEL TRANSOMS are generally used with removable transom bars in boiler rooms and other like locations.

VENTED SASH TRANSOMS are generally used with fixed transom bars, where ventilation and light is desired.

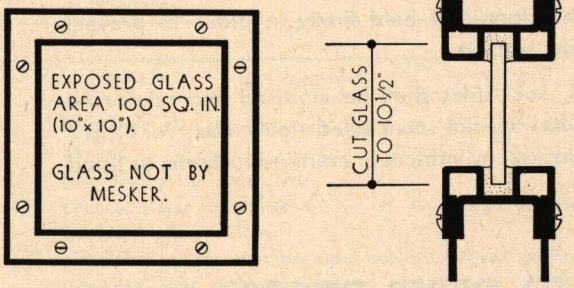
STRUCTURAL FRAMES with D350 series hinges



When structural channel frames (not by Mesker) are specified, on order, Mesker will furnish the special offset half mortise hinge illustrated, permitting the hinge leaf to be bolted or welded directly to the face of the channel.

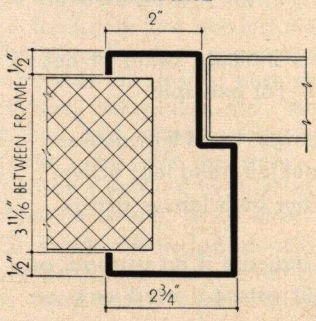
(See Page 6) For Hinge Numbers)

VISION LIGHTS



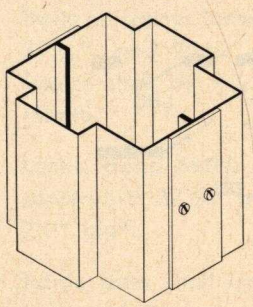
Constructed to receive ¼" glass. Glazing mouldings screwed on from both sides to give door same appearnce on either side.

NARROW FRAME



Designed for setting frames in narrow interior partitions.

MULLIONS FOR BANKS OF DOORS



When doors and frames are placed in horizontal banks, such as for entrances, an economical detail is shown here using a mullion between the frames.

DOOR SPECIFICATIONS for 1¾" Doors • Series 2000 and 3000

Hollow Metal doors, pressed metal frames, trim and other work of the type herein specified, shall be equal to that manufactured by Mesker Brothers, St. Louis, or equal as approved by the architect.

a. Doors shall be hollow metal flush doors 1¾" thick, of 16 gauge cold rolled stretcher leveled steel sheet in the sizes, dimensions, and types as indicated on the drawings and door schedules.

b. Doors shall be continuous triple box type construction consisting of 16 gauge vertical hinge stile, lock stile, and center box section running continuously from the bottom of the door to the top, or from the bottom of the door to the glass panel. There shall be no horizontal rails, except at the top when glass occurs. Center box section shall be reinforced with vertical "Z" stiffeners spaced not less than 8" on centers, securely welded to both sides. Side rails shall run continuous from the top to the bottom of the door and shall be securely spot welded every 2" to the center reinforced box section.

c. Fibreglass insulation and sound deadening material 2" thick shall be compressed within the door and held firmly in place to prevent any settling.

d. Lock-stiles shall be mortised and reinforced with special concealed lock box for 2¾" backset cylindrical or mortised locksets, as listed in the hardware schedule. Hinge-stiles shall be mortised for 4½" x 4½" template butts. Reinforcing shall be channel type, accurately drilled and tapped to match hinge hole spacings. Door leaves at top on both sides shall be reinforced internally for door closer application.

e. Frames for doors, transoms, side lights and similar frames shall be standard combination buck and trim unit-style frames of 16 gauge cold rolled stretcher leveled steel sheets, 5½" deep with integral rolled ¾" stop and 2" face.

f. Corners and intersections of frames shall be accurately coped and mechanically joined by means of concealed clips, bolts and nuts, and shall be shipped knocked down complete with adjustable wall anchors and knee-angle floor anchors.

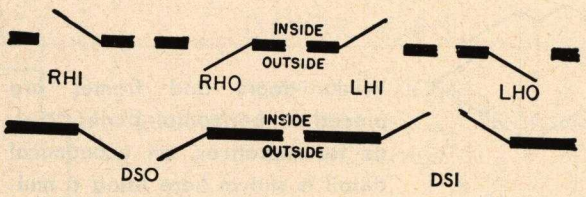
g. Door frames shall be mortised and reinforced for 4½" x 4½" template butts and for dust-box lock strikes. Door headers shall be reinforced for closers and soffit brackets.

h. All doors, pressed metal frames and trim shall be bonderized and shall receive one factory coat of grey phenolic resin paint oven dried to a smooth dirt-free mat finish.

j. Underwriters' Label.
Where indicated, doors shall be furnished with Underwriters' "B" class label, but each door leaf shall be no larger than 3'8" x 7'0" and shall be of solid metal or with one vision light 10" x 10".

HOW TO ORDER DOORS

HAND AND SWING DIAGRAMS



When ordering doors and frames always give complete information, including type, size, style and hand and swing. For example: F-3070 G2-RHO or F-6070-LG-DSI-BA.

When ordering double doors indicate swing of door leaves and hand of active leaf. For example:

DSI-RA—Double swing in right hand leaf active.
DSO-LA—Double swing out left hand leaf active.
DSO-BA—Double swing out both leaves active.

When both leaves are active, indicate if no astragal or split astragal is required. Split astragal used only on doors with both leaves active.

HARDWARE SCHEDULE

Suggested Hardware for Various Door Openings

Doors for	Hinges	Locks		Closers	Holders	Kickplates
		Cylindrical	Mortise			
Boiler to Exterior	D300R2 1	D204	2	D452 4		
Boiler to Interior	D300R2 1	D101	D801 3	D452 4		
Classrooms	D300R2 1	D103	D803	D441 9		
Closets	D300 6	D104 or 152	D804 5	optional		
Connecting Rooms	D300 6	D112 or 157	D812 5	optional		
Cafeterias to Ext.	D300R2 1	D203	7	D440	optional	Yes 11
Cafeterias to Corr.	D300R2 1	D180Y + D655 + 656	D180Y 8	D441 9	optional	Yes 11
Dining rooms			See Cafeterias above.			
Dormitory rooms	D300 6	D108 or 151	D808 5	optional		
Entrances, Main	D300R4 1	D203	7	D450	Yes 10	Yes 11
Exits	D300R2 1	D101	D801 3	D450	optional	
Gym to Exterior	D300R2 1	D204	2	D450	Yes 10	Yes 11
Gym to Corridor	D300R2 1	D180Y + D655 + 656	D180Y 8	D441 9	optional	Yes 11
Kitchen to Serving	D300R2 1	D180Y + D651	D180Y 12	D440		Yes 11
Toilets (Schools)	D300R4 1	D651 + D653	13	D440		Yes 11
Toilets (Others)	D300 6	D105 or D159	D805 5	D430		
Locker Rooms	D300R4 1	D180Y + 651 + 653	D180Y 8	D440		Yes 11
Offices, Private	D300 6	D102 or 151	D802 5	optional		
Stairwell to Ext.	D300R2 1	D203	14	D442 4		
Storage Rooms	D300 6	D104 or 152	D804 5	optional		
Utility	D300 6	D104 or 152	D804 5	optional		
Vestibules	D300R4 1	D655 + 656	15	D441 9	optional 10	Yes 11

NOTES:

1. 2 race or 4 race ball bearing hinges for large doors, exterior doors, or high frequency use.
2. Thumb piece and lock suggested here for maximum outside control.
3. Check to see if local code requires panic devices.
4. Fusible link closers suggested.
5. Standard duty locks may be substituted in low frequency locations but their design will not match heavy duty locks.
6. Plain non-ball bearing hinges for low frequency doors.
7. Outside trim with pull handle and cylinder lock suggested.
8. Dead bolt and push and pulls only. See if code requires panic devices.
9. Hold-open closer suggested.
10. Choose either overhead holder of floor type depending on outside floor conditions.
11. Kickplates usually on push side, but often found on both sides.
12. Dead bolt and push plate only.
13. Push plate and pull handle only.
14. Outside handle and cylinder lock only.
15. Push and pull bars only. No lock.

HARDWARE SPECIFICATIONS

(a) Hardware—All hardware for doors and frames shall be furnished (but not installed) under this section by the hollow metal door contractor. All surface applied hardware such as closers, push and pulls, door holders, panic devices, kick plates, etc., shall be applied on the job by drilling and tapping. This work to be done by the contractor who sets the doors and frames. All hardware shall be furnished in strict accordance with the hardware schedule herein, or as listed on the drawings.

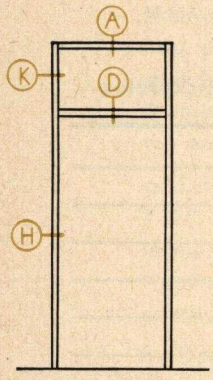
(b) Work not included—Hardware for the following has been specified under other divisions: (List here such items as wood doors, toilet partitions, windows, cabinets, cases, lockers, kalamein doors, etc.)

(c) Location of hinges, locks and panic bars—Door Butts on frames for 6'8" doors shall be centered at 7 1/4", 39 3/4", and 72 1/4" from top of rebate, and on 7'0" frames shall be 9 1/4", 41 3/4", and 74 1/4" from top of rebate.

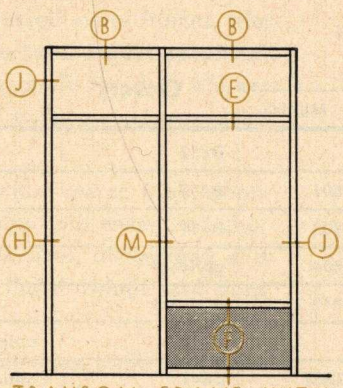
Locks, dead bolts, dead latches, and leaves shall be centered at 37 3/8" from bottom of door, whether 6'8" or 7'0" high.

Panic bars shall be centered approximately 35" from bottom of doors of any height.

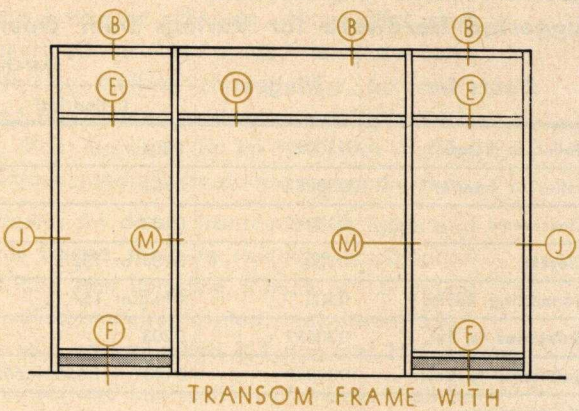
TRANSOM FRAMES • SIDE LIGHTS • BORROWED LIGHTS



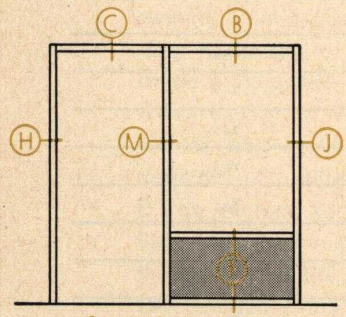
TRANSOM FRAME



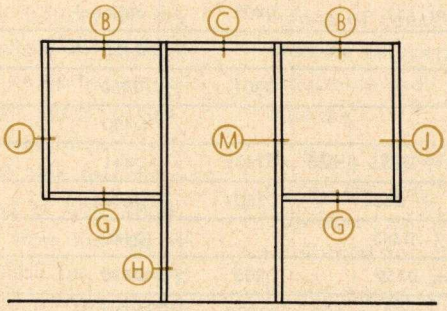
TRANSOM FRAME WITH ONE SIDELIGHT



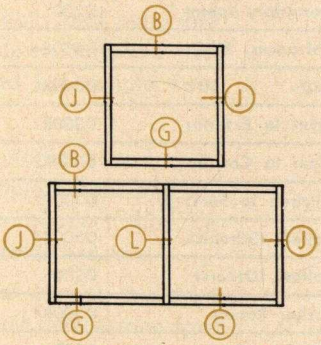
TRANSOM FRAME WITH TWO SIDELIGHTS



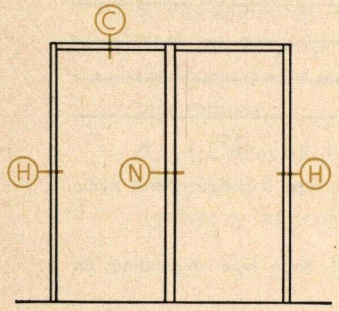
FRAME WITH ONE SIDELIGHT



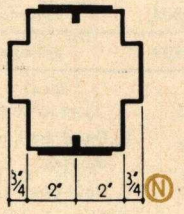
DOOR FRAME WITH TWO BORROWED LIGHTS

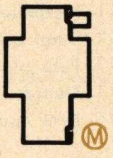


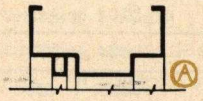
BORROWED LIGHTS SINGLE OR DOUBLE

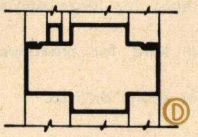


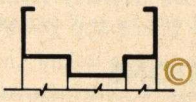
TWO DOOR FRAMES

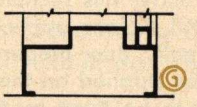


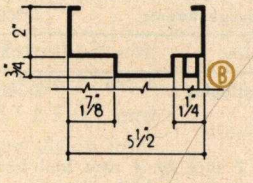


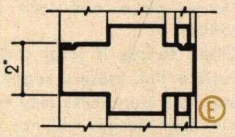


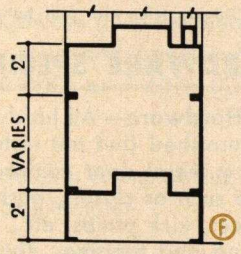


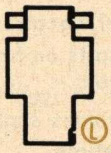












Transom Frames, Sidelights and Borrowed Lights are designed to furnish complete units, with all corners coped for field assembly, that can be easily and accurately installed adjacent to each other to obtain the best possible finished appearance and strength.

Rooms within rooms or partitions can be built using Transom Frames and Borrowed Lights to the ceiling with masonry wall below the Borrowed Lights.

TRANSOM DOOR FRAMES are fabricated on order for standard size doors to any height up to 14'-0", and any depth to meet job requirements. Standard 5½" depth is lower in cost than special depths. Can be furnished in fixed glazed, fixed or ventilated sash, metal panels, or louvres.

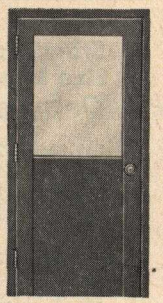
SIDELIGHTS are fabricated on order to fit adjacent to standard or transom frames to widths up to 8'-0" and only in 5½" depth. Can be furnished with muntins or horizontal impost (Section L) as required. Bottom panel furnished to match glass heights in Doors. Sidelights with panels to height of glass in G Doors furnished only up to 4'-0" in width. Multiple sidelights can be used adjacent to each other.

BORROWED LIGHTS are fabricated to order in any size and depth to meet job requirements. Standard 5½" depth to match standard frames are lower in cost than special depths. Borrowed Lights can be used in multiples for long runs and can be furnished with corner plates where required.

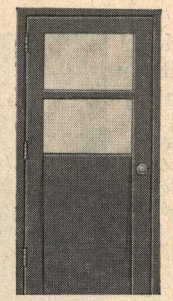
Borrowed Lights used in exterior walls or in exterior entrances, with masonry below (Short Sidelight) or clear to floor can be furnished with sill section as used in Sidelights (Section F).

COMMERCIAL DOORS • 1¾" x 16 ga. • Series 1000

Design M

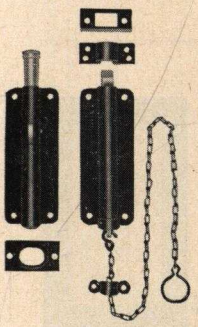


Design G

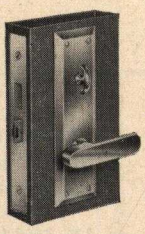


Design G2
Also G4, G6, G8

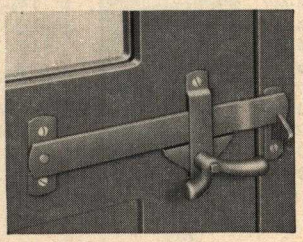
HARDWARE



Surface Type Top Bolt No. D662H and Bottom Bolt No. D662B



T-handle (D830) available for all mortise locks on page 5.



Steel Lever Latch D850

SWING DOOR STOCK TYPES AND SIZES

SINGLE DOORS				DOUBLE DOORS			
DESIGN	TYPE	DOOR OPG DIM WIDTH	DOOR OPG DIM HEIGHT	DESIGN	TYPE	DOOR OPG DIM WIDTH	DOOR OPG DIM HEIGHT
	C-2868-G	2'-8"	6'-8"		C-5468-G	5'-4"	6'-8"
	C-2870-G	2'-8"	7'-0"		C-5470-G	5'-4"	7'-0"
	C-3070-G	3'-0"	7'-0"		C-6070-G	6'-0"	7'-0"
	C-3470-G	3'-4"	7'-0"		C-6870-G	6'-8"	7'-0"
	C-3870-G	3'-8"	7'-0"		C-7470-G	7'-4"	7'-0"
	C-2868-G2	2'-8"	6'-8"		C-5468-G2	5'-4"	6'-8"
	C-2870-G2	2'-8"	7'-0"		C-5470-G2	5'-4"	7'-0"
	C-3070-G2	3'-0"	7'-0"		C-6070-G2	6'-0"	7'-0"
	C-3470-G2	3'-4"	7'-0"		C-6870-G2	6'-8"	7'-0"
	C-3870-G4	3'-8"	7'-0"		C-7470-G4	7'-4"	7'-0"
	C-4080-G6	4'-0"	8'-0"		C-8080-G6	8'-0"	8'-0"
	C50100-G8	5'-0"	10'-0"		C100100-G8	10'-0"	10'-0"
	C-2868-M	2'-8"	6'-8"		C-5468-M	5'-4"	6'-8"
	C-2870-M	2'-8"	7'-0"		C-5470-M	5'-4"	7'-0"
	C-3070-M	3'-0"	7'-0"		C-6070-M	6'-0"	7'-0"
	C-3470-M	3'-4"	7'-0"		C-6870-M	6'-8"	7'-0"
	C-3870-M	3'-8"	7'-0"		C-7470-M	7'-4"	7'-0"
	C-4080-M	4'-0"	8'-0"		C-8080-M	8'-0"	8'-0"

SPECIFICATIONS • Commercial Doors • Series 1000

a. Doors shall be Mesker Commercial Series 1000 hollow metal flush panel doors 1¾" thick, of 16 gauge cold rolled stretcher leveled steel sheet in the sizes, dimensions, and types as indicated on the drawings and door schedules.

b. Doors shall be continuous triple box type construction consisting of 16 gauge vertical hinge stile, lock stile, and center box section running continuously from the bottom of the door to the top, or from the bottom of the door to the glass panel. There shall be no horizontal rails showing, except at the top when glass occurs. Center box section shall be reinforced with vertical Z stiffeners spaced not less than 8" on centers, securely welded to both sides. Side rails shall run continuous from the top to the bottom of the door and shall be securely spot welded every 2" to the center reinforced box section.

c. Lock-stiles shall be mortised and reinforced with special concealed lock box for 2¾" backset mortise locksets, with 1¼" x 8" front, and universal spacing. Hinge-stiles shall be mortised for 4½" x 4½" template butts. Reinforcing shall be channel type, accurately drilled and tapped to match hinge hole spacings. Door leaves at top on both sides shall be reinforced internally for door closer application.

d. Frames for doors, transoms, side lights and similar frames shall be standard combination buck and trim unit-style frames of 16 gauge cold rolled stretcher leveled steel sheets, 5½" deep with integral rolled ¾" stop and 2" face.

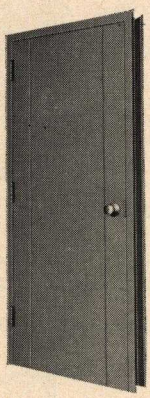
e. Corners and intersections of frames shall be accurately coped and mechanically joined by means of concealed clips, bolts and nuts, and shall be shipped knocked down complete with adjustable wall anchors and knee-angle floor anchors.

f. Door frames shall be mortised and reinforced for 4½" x 4½" template butts and for dust-box lock strikes. Door headers shall be reinforced for closers and soffit brackets.

g. All doors, pressed metal frames and trim shall be bonderized and shall receive one factory coat of grey phenolic resin paint oven dried to a smooth dirt-free mat finish.

1⅜" DOORS • Series 3800/18 and 3800/20

Series 3800
FLUSH DESIGN
3800/18—18 ga.
3800/20—20 ga.

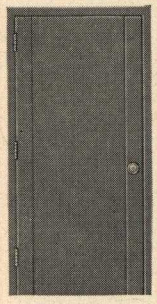


Available in 6 designs shown, and in the standard opening sizes shown opposite each design. Design G2 may be had with 4 lights of glass, and design M-FLB may be had with 2 louvers, or one top louver only. Standard vision panel in design MV is approximately 10" x 10" to receive ¼" glass. (Refer to Home Office for Underwriters' Labeled Doors).

Standard Size Door Opening

1⅜-1668-M
1⅜-2068-M
1⅜-2468-M
1⅜-2668-M
1⅜-2868-M
1⅜-3068-M

1⅜-1670-M
1⅜-2070-M
1⅜-2470-M
1⅜-2670-M
1⅜-2870-M
1⅜-3070-M

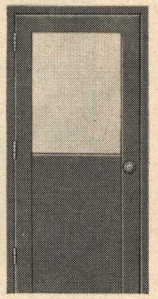


Design M

Standard Size Door Opening

1⅜-2468-G
1⅜-2668-G
1⅜-2868-G
1⅜-3068-G

1⅜-2470-G
1⅜-2670-G
1⅜-2870-G
1⅜-3070-G

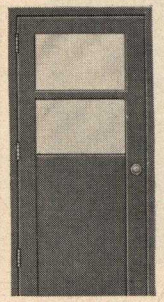


Design G

Standard Size Door Opening

1⅜-2468-G2
1⅜-2668-G2
1⅜-2868-G2
1⅜-3068-G2

1⅜-2470-G2
1⅜-2670-G2
1⅜-2870-G2
1⅜-3070-G2

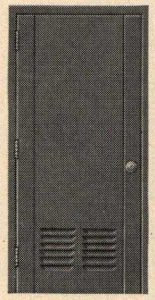


Design G2

Standard Size Door Opening

1⅜-2468-M-FLB
1⅜-2668-M-FLB
1⅜-2868-M-FLB
1⅜-3068-M-FLB

1⅜-2470-M-FLB
1⅜-2670-M-FLB
1⅜-2870-M-FLB
1⅜-3070-M-FLB

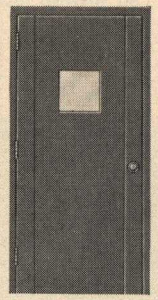


Design M-FLB
(Fixed Louver)

Standard Size Door Opening

1⅜-2468-MV
1⅜-2668-MV
1⅜-2868-MV
1⅜-3068-MV

1⅜-2470-MV
1⅜-2670-MV
1⅜-2870-MV
1⅜-3070-MV

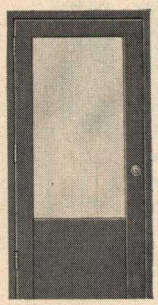


Design MV

Standard Size Door Opening

1⅜-2468-LG
1⅜-2668-LG
1⅜-2868-LG
1⅜-3068-LG

1⅜-2470-LG
1⅜-2670-LG
1⅜-2870-LG
1⅜-3070-LG



Design LG

DOOR SPECIFICATIONS

Door stiles and and panels shall be formed from 20-gauge (18-gauge for Series 3800/18) cold rolled, prime quality steel. They shall be made in three sections—lock stile, hinge stile and center panel. The three sections shall be continuously interlocked and the vertical joints shall be tight and flush.

Door shall be mortised and machined for key-in-knob cylindrical locks. Heavy gauge concealed hinge and lock reinforcements shall be welded to inside of door.

The top and bottom of doors shall be closed and stiffened with heavy gauge channels spotwelded to panel and stiles. Doors shall be reinforced and sound-deadened with a honeycomb core in center panel.

Doors are bonderized and finished with a baked-on prime coat. On special order, they are available with wood graining or finish colors.

FRAME SPECIFICATIONS

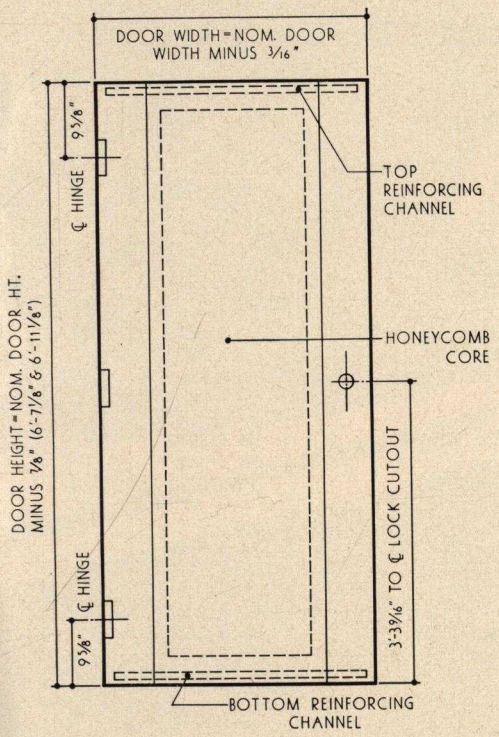
Frames shall be formed from 16 or 18-gauge cold rolled steel. Standard construction shall be KD—set up welded available on request. Mitered corners shall have heavy reinforcements with integral tabs for secure and easy interlocking of jambs to head.

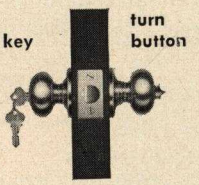
Frames for 1⅜" doors shall be mortised, machined and reinforced for one pair of 3½" x 3½" hinges.

Each door strike and hinge back-up plate on door frame shall be protected by a plaster guard welded in place. Provisions shall be made in strike jamb for two factory applied rubber bumpers.

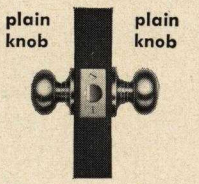
Frames up to and including 5¾" jamb depth shall have three stud anchors and one combination stud-base anchor per jamb, welded on. 6¾" and 8¾" jamb frames shall be furnished with loose T-anchors and welded on adjustable base anchors.

Frames shall be bonderized and finished with baked-on prime coat.

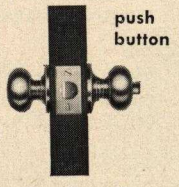

DOOR WIDTH = NOM. DOOR WIDTH MINUS 3/16"
DOOR HEIGHT = NOM. DOOR HT. MINUS 1/8" (6'-7 1/8" & 6'-11 1/8")
℄ HINGE
9 5/8"
TOP REINFORCING CHANNEL
HONEYCOMB CORE
3'-3 9/16" TO ℄ LOCK CUTOUT
BOTTOM REINFORCING CHANNEL



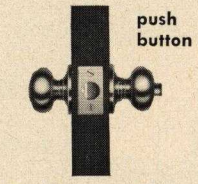
Entrance Set
D165½
U.S. 160-A
To lock, turn inside button. Unlock by outside key. Inner knob always free.



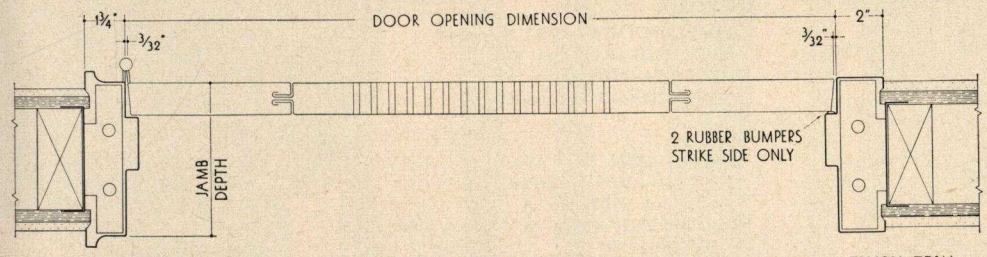
Passage Set
D155½
U.S. 160-N
No locking feature. Both knobs free to operate latch bolt.



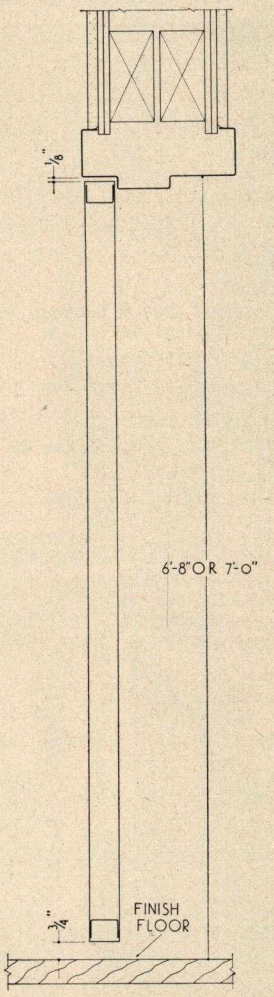
Bedroom Set
D153½
U.S. 160-P
To lock from bedroom side, push button. Unlocks when you leave bedroom preventing accidental lock-out.



Bathroom Set
D166½
U.S. 160-L
Same as bedroom set except door can be unlocked from outside by emergency key.

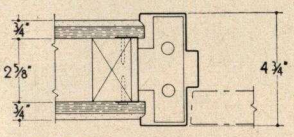


CONTOUR TRIM — HORIZONTAL SECTION THROUGH DOOR — FLUSH TRIM

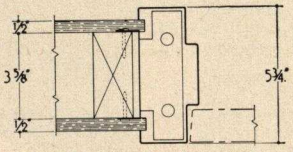


VERTICAL SECTION

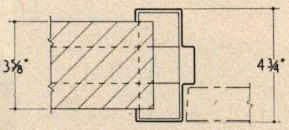
STEEL FRAMES—Typical Construction Details



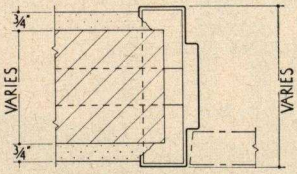
4¾" frame in plaster



5¾" frame in drywall



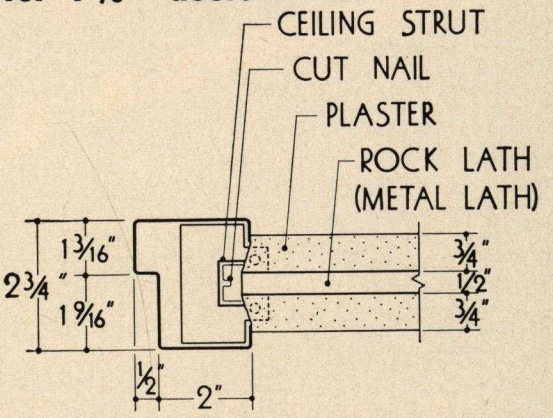
4¾" frame in block



5¾", 6¾" or 8¾" frame in block and plaster

Frames above also available in contour profile.

2" Solid Plaster Construction for 1⅜" doors



cross section

Frame above also available in 3¾" depth.

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